



Water-Data Report 2008

**01580000 DEER CREEK AT ROCKS, MD**

Lower Susquehanna Basin  
Lower Susquehanna Subbasin

LOCATION.--Lat 39°37'47.9", long 76°24'11.9" referenced to North American Datum of 1983, Harford County, MD, Hydrologic Unit 02050306, on right bank 0.3 mi upstream from bridge on Cherry Hill Road, 0.8 mi southeast of Rocks, 1.2 mi upstream from Stirrup Run, and 23.5 mi upstream from mouth.

DRAINAGE AREA.--94.4 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1926 to current year. Monthly discharge only for November and December 1926, published in WSP 1302.

REVISED RECORDS.--WSP 726: Drainage area. WSP 1502: 1927-36 (maximum and minimum only 1927-29, maximum only 1930-32, 1936).

GAGE.--Water-stage recorder. Concrete control since Sept. 7, 1938. Datum of gage is 250.40 ft above National Geodetic Vertical Datum of 1929 (Baltimore City bench mark).

REMARKS.--Records good except those for estimated daily discharges (backwater from leaves, ice effect), which are poor. Prior to 1965, some regulation at low flow by mills upstream from station. U.S. Geological Survey gage-height telemeter at station. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1888, that of Aug. 23, 1933.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb 1	1945	*2,600	*6.97
No other peak greater than base discharge			

Minimum discharge, 31 ft<sup>3</sup>/s, Oct. 2, 8-10.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e32	51	48	105	631	98	110	122	127	82	54	48
2	32	48	52	89	437	94	99	116	107	96	53	46
3	32	47	154	e77	160	92	95	110	98	85	78	44
4	33	46	80	e67	129	94	139	105	222	78	54	43
5	33	45	66	76	115	223	113	98	146	78	49	42
6	e32	47	e60	74	104	142	110	94	115	80	50	496
7	e32	45	e55	72	103	132	102	90	106	79	48	216
8	32	43	67	69	91	200	99	94	98	77	49	79
9	32	44	77	71	86	159	97	191	90	81	47	121
10	32	46	84	71	83	133	95	148	91	92	45	94
11	44	45	79	76	e75	127	96	121	98	70	44	64
12	43	46	71	73	77	123	163	617	91	66	43	64
13	39	49	73	67	449	117	112	301	90	65	42	81
14	36	50	84	81	255	114	103	199	95	180	43	62
15	e34	65	70	101	157	114	96	165	103	84	73	54
16	34	74	310	79	135	122	92	272	91	69	48	49
17	34	53	159	65	121	112	90	212	90	65	44	49
18	35	50	101	87	139	105	88	183	89	62	41	49
19	37	88	85	90	125	150	87	177	88	60	39	48
20	42	72	77	75	110	251	136	205	85	58	38	47
21	36	61	71	e60	104	144	215	207	83	55	37	46
22	35	56	68	e50	110	130	123	161	81	53	37	45
23	33	52	72	67	110	123	108	145	79	63	36	45
24	39	49	112	e60	105	117	101	135	77	144	36	44
25	57	49	78	e55	105	113	102	128	75	69	36	44
26	72	52	77	e50	110	111	118	124	74	59	36	53
27	577	65	88	59	129	109	145	122	74	62	34	244
28	122	55	76	e55	104	110	235	137	87	72	35	245
29	70	52	116	58	97	103	219	116	78	57	59	99
30	58	50	93	65	---	98	136	113	75	54	87	75
31	53	---	142	61	---	98	---	127	---	60	54	---
<b>Total</b>	1,852	1,595	2,845	2,205	4,556	3,958	3,624	5,135	2,903	2,355	1,469	2,736
<b>Mean</b>	59.7	53.2	91.8	71.1	157	128	121	166	96.8	76.0	47.4	91.2
<b>Max</b>	577	88	310	105	631	251	235	617	222	180	87	496
<b>Min</b>	32	43	48	50	75	92	87	90	74	53	34	42
<b>Cfsm</b>	0.63	0.56	0.97	0.75	1.66	1.35	1.28	1.75	1.03	0.80	0.50	0.97
<b>In.</b>	0.73	0.63	1.12	0.87	1.80	1.56	1.43	2.02	1.14	0.93	0.58	1.08

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2008, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	85.4	104	119	143	162	171	170	148	127	105	92.8	87.3
<b>Max</b>	317	266	392	422	415	486	379	421	576	279	362	345
<b>(WY)</b>	(1980)	(1927)	(1997)	(1996)	(1979)	(1994)	(1984)	(1989)	(1972)	(1972)	(1933)	(1975)
<b>Min</b>	26.0	32.5	37.8	41.7	37.6	59.8	47.8	47.7	35.2	15.7	14.7	26.1
<b>(WY)</b>	(1964)	(1932)	(1966)	(1966)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1927 - 2008	
<b>Annual total</b>	43,759		35,233			
<b>Annual mean</b>	120		96.3		126	
<b>Highest annual mean</b>					224	1972
<b>Lowest annual mean</b>					36.3	2002
<b>Highest daily mean</b>	1,260	Mar 2	631	Feb 1	6,610	Jun 22, 1972
<b>Lowest daily mean</b>	32	Sep 25 <sup>a</sup>	32	Oct 1 <sup>b</sup>	4.0	Aug 22, 2002
<b>Annual seven-day minimum</b>	32	Sep 29	32	Oct 1	5.0	Aug 17, 2002
<b>Maximum peak flow</b>			2,600	Feb 1	<sup>c</sup> 13,600	Aug 23, 1933
<b>Maximum peak stage</b>			6.97	Feb 1	<sup>d</sup> 17.70	Aug 23, 1933
<b>Instantaneous low flow</b>			31	Oct 2 <sup>f</sup>	3.5	Aug 22, 2002
<b>Annual runoff (cfsm)</b>	1.27		1.02		1.34	
<b>Annual runoff (inches)</b>	17.24		13.88		18.14	
<b>10 percent exceeds</b>	207		151		213	
<b>50 percent exceeds</b>	97		79		94	
<b>90 percent exceeds</b>	39		43		45	

<sup>a</sup> Sept. 25, 26, 29, 30, Oct. 1-3, 6-10 (1, 6, 7 estimated).

<sup>b</sup> Oct. 1-3, 6-10 (1, 6, 7 estimated).

<sup>c</sup> From rating curve extended above 3,000 ft<sup>3</sup>/s, on basis of slope-area measurement at gage heights 13.3 and 17.7 ft.

<sup>d</sup> From floodmarks.

<sup>f</sup> Oct. 2, 8-10.

